

# ACT Profile Report - State

Graduating Class 2012  
Arizona



ACT, INC. -- CONFIDENTIAL



## Table of Contents

<b>Section I: Executive Summary</b>	<b>Page 5</b>
Percent of Your Students Ready for College-Level Coursework	
Five Year Trends—Percent of Students Meeting College Readiness Benchmarks	
Five Year Trends—Average ACT Scores	
Five Year Trends—Average ACT Scores by Level of Preparation	
Five Year Trends—Percent and Average Composite Score by Race/Ethnicity	
Percent of Students in College Readiness Standards Score Ranges	
<b>Section II: Academic Achievement</b>	<b>Page 11</b>
ACT Score Distributions, Cumulative Percentages, Averages, and Quartile Values	
Average ACT Composite Scores for Race/Ethnicity by Level of Preparation	
Average ACT Scores by Race/Ethnicity	
Percent of Students in College Readiness Standards Score Ranges	
Average ACT Scores by Gender	
Percent of Students Meeting College Readiness Benchmark Scores by Gender	
College Readiness Benchmark Percent and Average ACT Scores by Overall High School Curriculum	
College Readiness Benchmark Percent and Average ACT Scores by Content-Specific Curriculum	
<b>Section III: College Readiness &amp; Impact of Course Rigor</b>	<b>Page 17</b>
Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity	
Average ACT Scores and Average ACT Score Changes by Common Course Patterns	
College Readiness Percents by Common Course Patterns	
<b>Section IV: Career and Educational Aspirations</b>	<b>Page 25</b>
Distribution of Planned Educational Majors for All Students by College Plans	
Average ACT Composite Scores for Racial/Ethnic Groups by Post-Secondary Educational Aspirations	
Students' Score Report Preferences at Time of Testing	
<b>Section V: Optional Writing Test Results</b>	<b>Page 29</b>
Average ACT English and Writing Scores by Race/Ethnicity and Gender for students who took ACT Writing	

This report provides information about the performance of your 2012 graduating seniors who took the ACT as sophomores, juniors, or seniors; and self-reported at the time of testing that they were scheduled to graduate in 2012 and tested under standard time conditions.

This report focuses on:

**Performance** - student test performance in the context of college readiness

**Access** - number of your graduates exposed to college entrance testing and the percent of race/ethnicity participation

**Course Selection** - percent of students pursuing a core curriculum

**Course Rigor** - impact of rigorous coursework on achievement

**College Readiness** - percent of students meeting ACT College Readiness Benchmark Scores in each content area

**Awareness** - extent to which student aspirations match performance

**Articulation** - colleges and universities to which your students send test results

Each year, test data for a school, district, and the state represents a different cohort of students. ACT encourages educators to focus on trends (3, 5, 10 years), not year-to-year changes. Such changes can represent normal – even expected – fluctuations. On the other hand, trend lines offer more insight into what is happening in a school, district, or the state.

Furthermore, ACT encourages educators to measure student performance in the context of college readiness measures. The focus should be on the number and percentage of students meeting or exceeding ACT's College Readiness Benchmark Scores, a measure that is much more meaningful and understandable than an average composite score for a group of students.

**The ACT is a curriculum-based measure of college readiness. ACT components include:**

- Tests of academic achievement in English, math, reading, science, and writing (optional)
- High school grade and course information
- Student Profile Section
- Career Interest Inventory

**The ACT:**

Every few years, ACT conducts the **ACT National Curriculum Survey** to ensure its curriculum-based assessment tools accurately measure the skills high school teachers teach and instructors of entry-level college courses expect. The ACT is the only college readiness test designed to reflect the results of such a survey.

ACT's **College Readiness Standards** are sets of statements intended to help students, parents and educators understand the meaning of test scores. The standards relate test scores to the types of skills needed for success in high school and beyond. They serve as a direct link between what students have learned and what they are ready to do next. The ACT is the only college readiness test for which scores can be tied directly to standards. *Connecting College Readiness Standards to the Classroom* interpretive guides can be found at [www.act.org/standard/infoserv.html](http://www.act.org/standard/infoserv.html).

Only the ACT reports **College Readiness Benchmark Scores** – A benchmark score is the minimum score needed on an ACT subject-area test to indicate a 50% chance of obtaining a B or higher or about a 75% chance of obtaining a C or higher in the corresponding credit-bearing college courses, which include English Composition, Algebra, Social Science and Biology. These scores were empirically derived based on the actual performance of students in college. The College Readiness Benchmark Scores are:

College Course/Course Area	ACT Test	Benchmark Score
English Composition	English	18
Algebra	Mathematics	22
Social Sciences	Reading	21
Biology	Science	24

For more information, go to [www.act.org](http://www.act.org)

## How to Improve Scores and Increase College Readiness

20% of your students met all four ACT College Readiness Benchmark Scores (Table 1.1). To improve students' scores and increase the percentage of students identified as college ready, ACT suggests:

**PROVIDING ACCESS FOR ALL STUDENTS TO TAKE THE ACT:** 29,876 of your students are included in this report (the 'cohort'). Increasing access insures that more students have the opportunity to consider college and allows the reader to use this report to evaluate how well courses and instructional programs are preparing students for college and work.

**MAKING CORE CURRICULUM A PRIORITY:** Emphasize the need for all students to develop college and work ready skills, regardless of postsecondary aspirations. 61% of the students in the cohort reported taking courses that would be considered 'Core or More' (Table 1.4).

**MAKING SURE STUDENTS ARE TAKING THE RIGHT KINDS OF COURSES:** Table 3.2 reports 6% of the cohort took less than three years of math courses. Of these students, 7% were college ready. 16% of the cohort reported taking a course sequence of Algebra I, Algebra II, and Geometry. 10% of these students were college ready. In comparison, 51% of the students who took 3 or more years of math beyond Algebra I, Algebra II, and Geometry were college ready. Getting more students ready for Algebra prior to 9th grade will increase the chances that students will be prepared for and take advanced-level math courses.

Similarly, Table 3.2 reports 22% of the cohort took less than three years of natural science courses. 11% of these students were college ready. In comparison, 28% of students who took at least three years of science coursework were college ready.

**EVALUATING RIGOR OF COURSES:** Table 2.6 reports the percentage of students falling in each of the ACT College Readiness Standards score ranges. For example, approximately 52% of the cohort fall into the lowest three Mathematics score ranges. To increase these students' achievement, identify the standards they should focus on next by accessing ACT's College Readiness Standards at [www.act.org/standard](http://www.act.org/standard).

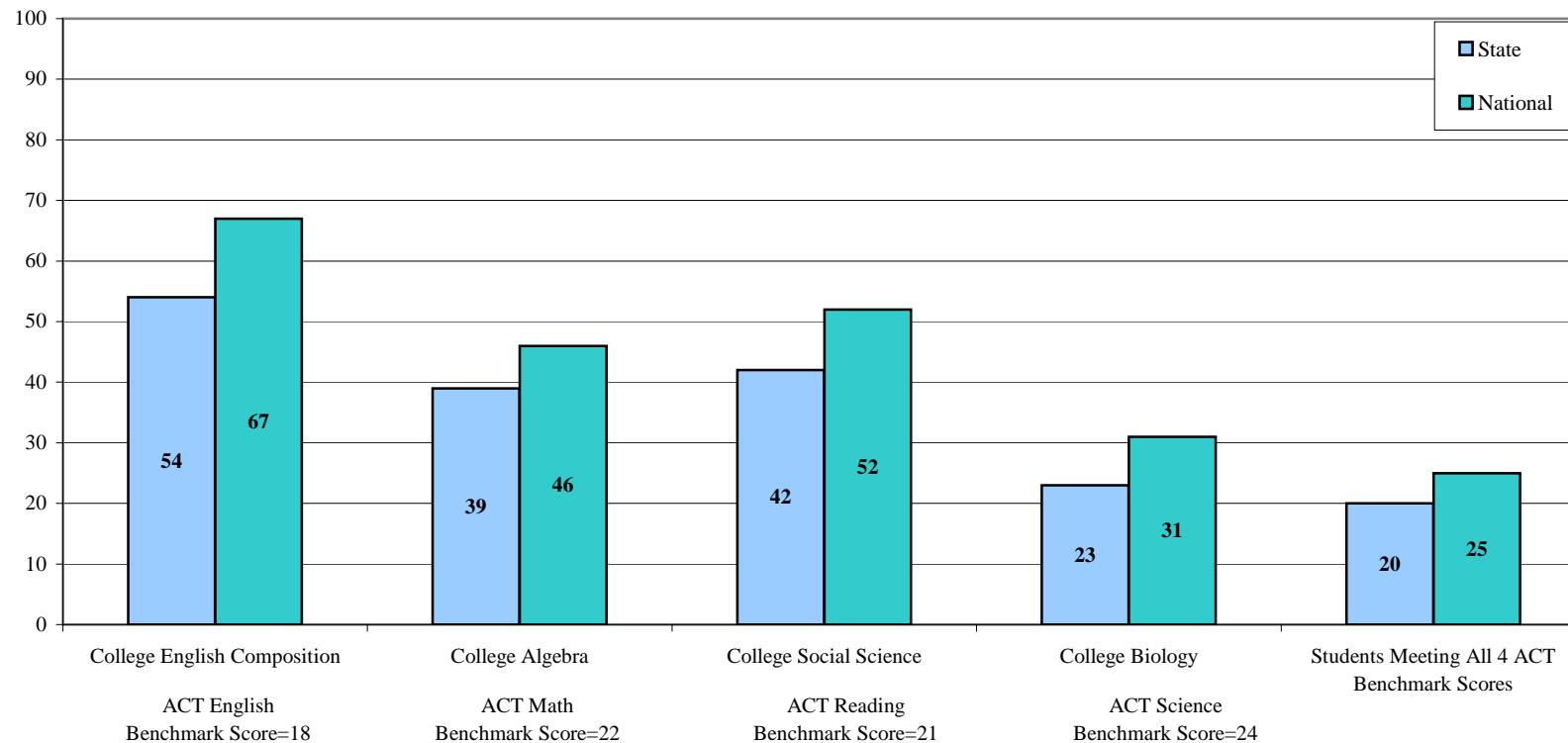
**PLAN GUIDANCE ACTIVITIES BASED ON STUDENTS' CAREER AND COLLEGE ASPIRATIONS:** Data in Tables 4.1 and 4.2 enable the reader to determine if aspirations are consistent with academic performance and whether among students with similar aspirations, academic performance is consistent across racial/ethnic groups.

For more information on interpreting data in this report, or to learn how ACT can help your students improve their readiness for college and the workplace, contact your regional office at 916-631-9200.

# Section I

# Executive Summary

Tables within this section have been changed to reflect the updated United States Department of Education race/ethnicity reporting requirements. The race/ethnicity categories shown are the derived Federal reporting categories. Not all values convert from old race/ethnicity categories into new race/ethnicity categories. Therefore, trend data may not be present where direct conversions are not available.

**Figure 1.1. Percent of Your Students Ready for College-Level Coursework**

A benchmark score is the minimum score needed on an ACT subject-area test to indicate a 50% chance of obtaining a B or higher or about a 75% chance of obtaining a C or higher in the corresponding credit-bearing college course.

**Table 1.1. Five Year Trends—Percent of Students Meeting College Readiness Benchmarks**

Year	Number of Students Tested		Percent Meeting Benchmarks									
	English		Mathematics		Reading		Science		Meeting All Four			
	State	National	State	National	State	National	State	National	State	National		
2008	11,602	1,421,941	74	68	52	43	60	53	30	28	25	22
2009	12,550	1,480,469	73	67	52	42	60	53	30	28	26	23
2010	23,303	1,568,835	56	66	39	43	46	52	23	29	19	24
2011	27,952	1,623,112	53	66	39	45	43	52	22	30	18	25
<b>2012</b>	<b>29,876</b>	<b>1,666,017</b>	<b>54</b>	<b>67</b>	<b>39</b>	<b>46</b>	<b>42</b>	<b>52</b>	<b>23</b>	<b>31</b>	<b>20</b>	<b>25</b>

**Table 1.2. Five Year Trends—Average ACT Scores**

Year	Number of Students Tested		Average ACT Scores									
	English		Mathematics		Reading		Science		Composite			
	State	National	State	National	State	National	State	National	State	National		
2008	11,602	1,421,941	21.3	20.6	22.1	21.0	22.3	21.4	21.3	20.8	21.9	21.1
2009	12,550	1,480,469	21.3	20.6	22.1	21.0	22.4	21.4	21.3	20.9	21.9	21.1
2010	23,303	1,568,835	18.9	20.5	20.4	21.0	20.2	21.3	19.9	20.9	20.0	21.0
2011	27,952	1,623,112	18.6	20.6	20.3	21.1	19.9	21.3	19.6	20.9	19.7	21.1
<b>2012</b>	<b>29,876</b>	<b>1,666,017</b>	<b>18.6</b>	<b>20.5</b>	<b>20.3</b>	<b>21.1</b>	<b>19.7</b>	<b>21.3</b>	<b>19.5</b>	<b>20.9</b>	<b>19.7</b>	<b>21.1</b>

**Table 1.3. Five Year Trends—Average ACT Scores Nationwide**

Year	Number of Students Tested		Average ACT Scores					
	English		Mathematics		Reading		Science	
	State	National	State	National	State	National	Composite	
2008	1,421,941		20.6	21.0	21.4		20.8	21.1
2009	1,480,469		20.6	21.0	21.4		20.9	21.1
2010	1,568,835		20.5	21.0	21.3		20.9	21.0
2011	1,623,112		20.6	21.1	21.3		20.9	21.1
<b>2012</b>	<b>1,666,017</b>		<b>20.5</b>	<b>21.1</b>	<b>21.3</b>		<b>20.9</b>	<b>21.1</b>

**Table 1.4. Five Year Trends—Average ACT Scores by Level of Preparation**

Year	Number of Students Tested		Percent <sup>2</sup>		English		Mathematics		Reading		Science		Composite	
	Core or More <sup>1</sup>	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core
2008	7,900	2,880	68	25	21.8	20.0	22.6	20.9	22.7	21.3	21.7	20.2	22.3	20.7
2009	9,883	2,542	79	20	21.8	19.6	22.6	20.5	22.8	20.9	21.8	19.9	22.4	20.4
2010	14,617	7,327	63	31	20.5	16.2	21.7	18.3	21.6	18.0	21.1	17.8	21.3	17.7
2011	16,314	8,995	58	32	20.5	15.9	21.8	18.1	21.4	17.7	21.0	17.5	21.3	17.4
<b>2012</b>	<b>18,138</b>	<b>9,204</b>	<b>61</b>	<b>31</b>	<b>20.4</b>	<b>16.1</b>	<b>21.7</b>	<b>18.3</b>	<b>21.3</b>	<b>17.6</b>	<b>20.9</b>	<b>17.6</b>	<b>21.2</b>	<b>17.5</b>

<sup>1</sup>"Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.

<sup>2</sup>Percent of all students tested. Numbers will not add up to 100% due to student non-response.

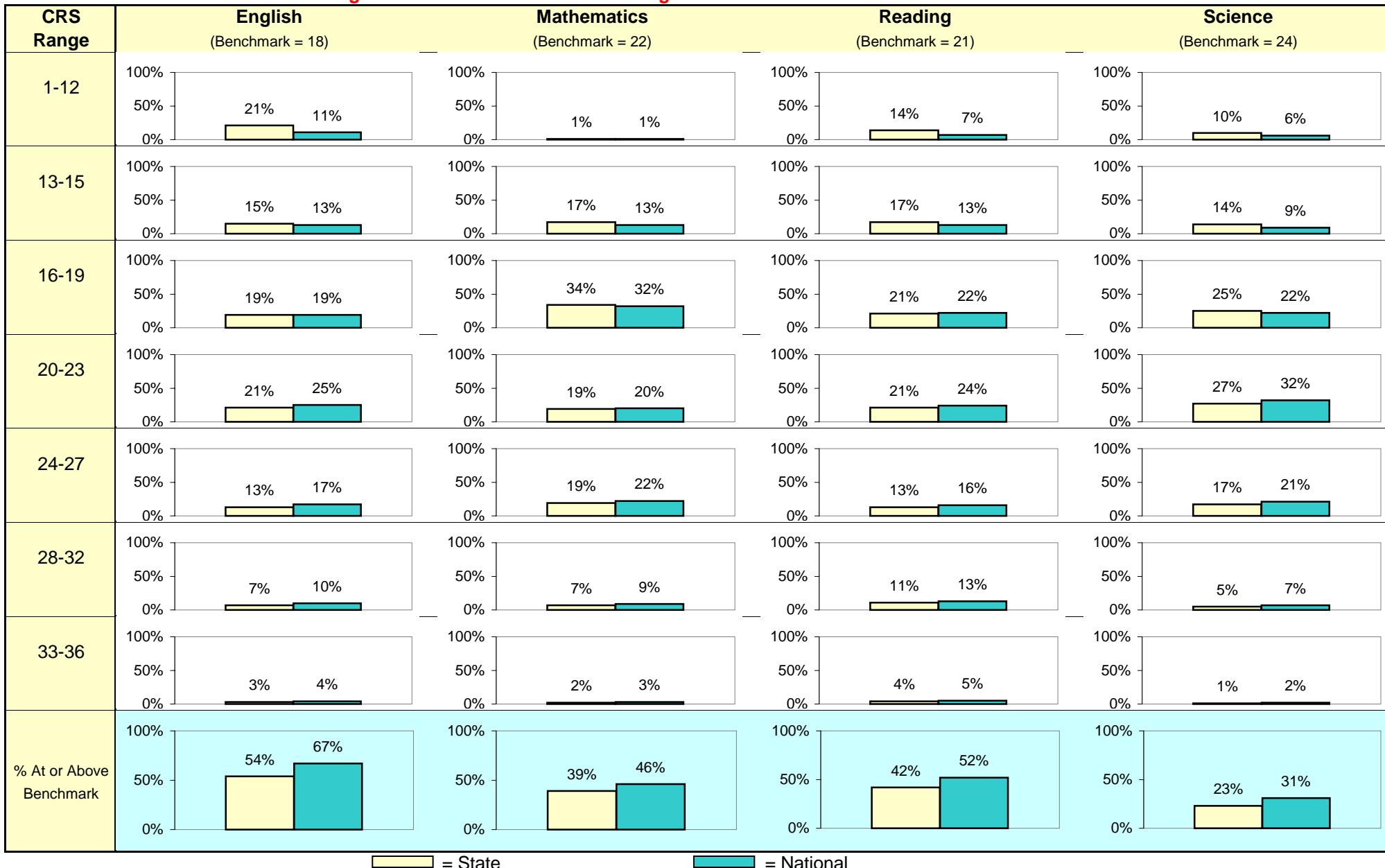
**Table 1.5. Five Year Trends—Percent and Average Composite Score by Race/Ethnicity<sup>1</sup>**

	2008			2009			2010			2011			2012		
	N	%	Avg												
All Students	11,602	100	21.9	12,550	100	21.9	23,303	100	20.0	27,952	100	19.7	29,876	100	19.7
Black/African American	444	4	18.6	544	4	18.5	1,045	4	17.5	1,209	4	17.4	1,312	4	17.0
American Indian/Alaska Native	875	8	16.8	920	7	17.2	1,449	6	16.3	1,340	5	16.3	1,328	4	16.5
White	6,478	56	23.1	7,111	57	23.3	10,568	45	22.3	11,617	42	22.3	11,797	39	22.3
Hispanic/Latino	1,826	16	20.0	2,244	18	19.8	6,653	29	17.4	9,469	34	17.2	11,676	39	17.4
Asian	446	4	23.4	540	4	23.5	792	3	22.5	973	3	22.7	1,015	3	22.4
Native Hawaiian/Other Pacific Islander	0	0	.	0	0	.	0	0	.	21	0	19.5	108	0	17.8
Two or more races	338	3	21.7	434	3	21.8	1,012	4	20.3	1,171	4	20.1	994	3	21.2
Prefer not to respond/No response	1,195	10	22.8	757	6	22.4	1,784	8	18.5	2,152	8	18.5	1,646	6	19.1

<sup>1</sup>Refer to the section header on page 5 for a description of race/ethnicity changes.

Total Students in Report: 29,876

**Table 1.6. Percent of Students in College Readiness Standards Score Ranges**



This page intentionally left blank.

# Section II

# Academic Achievement

Tables within this section have been changed to reflect the updated United States Department of Education race/ethnicity reporting requirements. The race/ethnicity categories shown are the derived Federal reporting categories. Not all values convert from old race/ethnicity categories into new race/ethnicity categories. Therefore, trend data may not be present where direct conversions are not available.

Total Students in Report: 29,876

**Table 2.1. ACT Score Distributions, Cumulative Percentages (CP<sup>1</sup>), and Score Averages**

ACT Scale Score	English		Mathematics		Reading		Science		Composite		ACT Scale Score
	N	CP	N	CP	N	CP	N	CP	N	CP	
36	49	100	58	100	180	100	76	100	10	100	36
35	195	100	126	100	168	99	82	100	56	100	35
34	323	99	201	99	285	99	70	99	110	100	34
33	291	98	239	99	452	98	99	99	163	99	33
32	345	97	241	98	547	96	163	99	261	99	32
31	337	96	239	97	669	95	261	98	342	98	31
30	442	95	446	96	618	92	309	97	489	97	30
29	485	93	569	95	660	90	328	96	618	95	29
28	575	92	743	93	685	88	467	95	718	93	28
27	757	90	1,073	90	719	86	918	94	904	91	27
26	823	87	1,357	87	863	83	849	91	1,115	88	26
25	1,132	85	1,500	82	931	80	1,400	88	1,267	84	25
24	1,316	81	1,780	77	1,321	77	1,901	83	1,376	80	24
23	1,387	76	1,760	71	1,516	73	1,488	77	1,633	75	23
22	1,329	72	1,410	65	1,357	68	2,000	72	1,707	70	22
21	1,923	67	1,107	61	1,589	63	2,214	65	1,679	64	21
20	1,779	61	1,524	57	1,859	58	2,496	58	1,799	58	20
19	1,413	55	1,650	52	1,237	52	2,281	49	1,910	52	19
18	1,207	50	1,786	46	2,329	48	1,863	42	1,909	46	18
17	1,244	46	2,552	40	1,328	40	1,685	36	1,952	40	17
16	1,920	42	4,146	32	1,345	35	1,598	30	1,948	33	16
15	1,843	35	3,206	18	2,090	31	1,525	25	1,884	26	15
14	1,431	29	1,394	7	1,886	24	1,434	19	1,901	20	14
13	1,178	25	512	3	1,179	18	1,294	15	1,775	14	13
12	780	21	188	1	1,677	14	1,074	10	1,326	8	12
11	1,106	18	37	1	783	8	818	7	686	3	11
10	1,394	14	15	1	888	5	831	4	256	1	10
9	1,103	10	11	1	309	2	213	1	64	1	9
8	899	6	0	1	187	1	86	1	10	1	8
7	484	3	2	1	116	1	5	1	2	1	7
6	250	1	2	1	55	1	28	1	4	1	6
5	86	1	0	1	5	1	13	1	1	1	5
4	35	1	0	1	27	1	2	1	1	1	4
3	13	1	0	1	12	1	4	1	0	1	3
2	1	1	0	1	2	1	0	1	0	1	2
1	1	1	2	1	2	1	1	1	0	1	1
Avg (SD)	18.6 (6.8)		20.3 (5.1)		19.7 (6.5)		19.5 (5.3)		19.7 (5.4)		Avg (SD)

<sup>1</sup>CP is the cumulative percent of students at or below a score point.

Note: Shaded portions of columns identify the students who met/exceeded the ACT College Readiness Benchmark Scores.

**Table 2.2. ACT Subscore Distributions, Cumulative Percentages (CP<sup>1</sup>), and Subtest Score Averages**

ACT Scale Score	English				Reading				Mathematics						ACT Scale Score	
	Usage/ Mechanics		Rhetorical Skills		Social Studies/ Sciences		Arts/ Literature		Pre/Elementary Algebra		Algebra/ Coordinate Geometry		Plane Geometry/ Trigonometry			
	N	CP	N	CP	N	CP	N	CP	N	CP	N	CP	N	CP		
18	741	100	205	100	592	100	743	100	965	100	227	100	282	100	18	
17	839	98	295	99	994	98	1,189	98	1,106	97	124	99	38	99	17	
16	1,217	95	1,082	98	1,304	95	1,442	94	879	93	696	99	670	99	16	
15	798	91	1,249	95	1,165	90	1,484	89	1,466	90	1,146	96	1,341	97	15	
14	1,546	88	1,716	91	1,391	86	1,796	84	1,676	85	2,227	93	1,921	92	14	
13	967	83	2,033	85	1,850	82	1,885	78	2,400	80	3,373	85	2,323	86	13	
12	1,960	80	2,524	78	3,146	76	2,031	71	2,681	72	2,413	74	2,666	78	12	
11	2,279	73	3,268	70	2,259	65	2,012	65	2,170	63	4,264	66	3,414	69	11	
10	2,976	65	2,775	59	2,628	57	2,306	58	2,744	55	3,713	52	4,817	58	10	
9	2,521	55	3,251	49	2,653	49	3,399	50	1,896	46	3,397	39	3,725	42	9	
8	2,332	47	2,798	38	2,766	40	2,353	39	4,027	40	3,172	28	3,210	29	8	
7	2,432	39	2,623	29	4,043	31	2,147	31	4,135	26	2,170	17	2,607	18	7	
6	2,278	31	1,386	20	1,849	17	2,077	24	2,162	12	1,528	10	539	10	6	
5	2,680	23	1,965	16	2,084	11	2,862	17	1,196	5	206	5	1,271	8	5	
4	1,711	14	1,409	9	620	4	1,090	7	266	1	818	4	301	4	4	
3	1,675	9	984	4	320	2	696	4	40	1	48	1	514	3	3	
2	761	3	285	1	160	1	349	1	54	1	260	1	93	1	2	
1	163	1	28	1	52	1	15	1	13	1	94	1	144	1	1	
Avg (SD)	9.1 (4.1)		9.6 (3.6)		10.0 (3.7)		9.9 (4.0)		10.3 (3.6)		10.3 (3.0)		10.1 (3.0)		Avg (SD)	

<sup>1</sup>CP is the cumulative percent of students at or below a score point.

**Table 2.3. ACT Score Quartile Values**

Quartile	English	Mathematics	Reading	Science	Composite
Q3 (75th Percentile)	23	24	24	23	23
Q2 (50th Percentile)	18	19	19	20	19
Q1 (25th Percentile)	14	16	15	16	15

**Table 2.4. Average ACT Composite Scores for Race/Ethnicity<sup>1</sup> by Level of Preparation**

Student Group	Race/Ethnicity	Number of Students Tested	Percent Taking Core or More <sup>2</sup>	Average ACT Composite Score	
				Core or More	Less Than Core
State	All Students	29,876	61	21.2	17.5
	Black/African American	1,312	56	18.1	15.7
	American Indian/Alaska Native	1,328	62	17.0	15.8
	White	11,797	69	23.4	20.0
	Hispanic/Latino	11,676	53	18.7	16.0
	Asian	1,015	71	23.8	19.7
	Native Hawaiian/Other Pac. Isl.	108	62	19.1	15.7
	Two or more races	994	67	22.4	18.9
	Prefer not/No Response	1,646	52	21.7	16.9
National	All Students	1,666,017	76	21.8	19.1
	Black/African American	222,237	72	17.5	15.9
	American Indian/Alaska Native	13,523	66	19.3	16.9
	White	983,148	77	23.0	20.3
	Hispanic/Latino	234,456	73	19.5	17.4
	Asian	68,080	81	24.1	21.8
	Native Hawaiian/Other Pac. Isl.	4,545	74	20.4	18.3
	Two or more races	55,500	76	22.0	19.6
	Prefer not/No Response	84,528	68	22.5	19.2

<sup>1</sup>Refer to the section header on page 11 for a description of race/ethnicity changes.<sup>2</sup>"Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.**Table 2.5. Average ACT Scores by Race/Ethnicity<sup>1</sup>**

Student Group	Race/Ethnicity	English	Mathematics	Reading	Science	Composite
State	All Students	18.6	20.3	19.7	19.5	19.7
	Black/African American	15.6	17.8	17.0	17.1	17.0
	American Indian/Alaska Native	14.4	17.5	16.5	17.0	16.5
	White	21.8	22.5	22.7	21.8	22.3
	Hispanic/Latino	15.9	18.4	17.3	17.5	17.4
	Asian	21.2	24.3	21.7	22.0	22.4
	Native Hawaiian/Other Pac. Isl.	16.3	19.0	17.7	17.8	17.8
	Two or more races	20.4	21.4	21.6	20.8	21.2
	Prefer not/No Response	17.8	19.9	19.2	18.9	19.1
National	All Students	20.5	21.1	21.3	20.9	21.1
	Black/African American	16.0	17.3	17.2	17.2	17.0
	American Indian/Alaska Native	17.1	18.5	18.7	18.7	18.4
	White	22.1	22.1	22.7	22.1	22.4
	Hispanic/Latino	17.7	19.4	19.0	18.9	18.9
	Asian	22.7	25.2	22.9	23.2	23.6
	Native Hawaiian/Other Pac. Isl.	18.9	20.4	19.8	19.7	19.8
	Two or more races	21.0	21.1	21.8	21.2	21.4
	Prefer not/No Response	20.7	21.3	21.5	20.9	21.3

<sup>1</sup>Refer to the section header on page 11 for a description of race/ethnicity changes.

**Table 2.6. Percent of Students in College Readiness Standards (CRS) Score Ranges**

Student Group	CRS Range	English		Mathematics		Reading		Science	
		N	%	N	%	N	%	N	%
State	33 to 36	858	3	624	2	1,085	4	327	1
	28 to 32	2,184	7	2,238	7	3,179	11	1,528	5
	24 to 27	4,028	13	5,710	19	3,834	13	5,068	17
	20 to 23	6,418	21	5,801	19	6,321	21	8,198	27
	16 to 19	5,784	19	10,134	34	6,239	21	7,427	25
	13 to 15	4,452	15	5,112	17	5,155	17	4,253	14
	01 to 12	6,152	21	257	1	4,063	14	3,075	10
National	33 to 36	74,039	4	50,719	3	81,737	5	30,082	2
	28 to 32	167,405	10	149,540	9	223,134	13	123,485	7
	24 to 27	291,143	17	369,818	22	262,453	16	355,144	21
	20 to 23	414,094	25	332,787	20	399,794	24	532,341	32
	16 to 19	318,585	19	538,042	32	366,975	22	373,233	22
	13 to 15	210,405	13	216,778	13	220,083	13	158,083	9
	01 to 12	190,346	11	8,333	1	111,841	7	93,649	6

**Table 2.7. Average ACT Scores by Gender**

Student Group	Gender	Average ACT Scores						
		N	Percent	English	Mathematics	Reading	Science	Composite
State	Males	13,716	46	18.1	20.9	19.5	19.9	19.7
	Females	15,940	53	19.0	19.9	20.0	19.2	19.7
	Missing	220	1	13.5	17.0	15.5	15.9	15.6
National	Males	761,554	46	20.2	21.7	21.2	21.4	21.2
	Females	900,625	54	20.9	20.6	21.4	20.5	21.0
	Missing	3,838	0	16.1	17.8	17.6	17.8	17.5

**Table 2.8. Percent of Students Meeting College Readiness Benchmark Scores by Gender**

Student Group	Gender	Percent of Students					Meet All Four
		English	Mathematics	Reading	Science	All Four	
State	Males	51	44	41	27	23	
	Females	56	36	43	20	17	
National	Males	64	50	51	35	29	
	Females	69	42	53	27	22	

**Table 2.9. College Readiness Benchmark (CRB) Percent and Average ACT Scores by Overall High School Curriculum**

Student Group	Curriculum Taken <sup>1</sup>	N	English		Mathematics		Reading		Science		Composite	
			CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB % <sup>4</sup>	Avg
State	Core or More <sup>2</sup>	18,138	66	20.4	51	21.7	52	21.3	31	20.9	27	21.2
	Less than Core	9,204	38	16.1	23	18.3	27	17.6	12	17.6	9	17.5
	Missing <sup>3</sup>	2,534	28	14.5	17	17.5	20	16.2	8	16.6	6	16.3
National	Core or More	1,259,744	72	21.3	51	21.8	57	22.0	35	21.6	29	21.8
	Less than Core	355,849	51	18.3	29	19.1	38	19.4	19	19.1	14	19.1
	Missing	50,424	38	16.2	22	18.1	27	17.6	14	17.8	10	17.6

<sup>1</sup> "Curriculum Taken" reflects overall high school curriculum in this table.<sup>2</sup> "Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.<sup>3</sup> Zero years or no coursework information reported in one or more content areas.<sup>4</sup> Composite CRB% results reflect students who meet all four subject-area benchmarks.**Table 2.10. College Readiness Benchmark (CRB) Percent and Average ACT Scores by Content-Specific Curriculum**

Student Group	Curriculum Taken <sup>1</sup>	N	English		Mathematics			Reading			Science			
			N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg
State	Core or More <sup>2</sup>	25,296	59	19.3	25,876	43	20.8	24,081	47	20.5	21,010	28	20.4	
	Less than Core	2,498	26	14.1	1,766	7	16.2	3,508	21	16.5	6,508	11	17.4	
	Missing <sup>3</sup>	2,082	30	14.7	2,234	17	17.6	2,287	21	16.3	2,358	8	16.7	
National	Core or More	1,558,562	68	20.8	1,550,768	48	21.4	1,471,658	54	21.6	1,425,217	33	21.4	
	Less than Core	64,748	41	16.5	69,741	8	16.6	149,266	40	19.7	194,661	13	18.4	
	Missing	42,707	40	16.5	45,508	22	18.2	45,093	29	17.8	46,139	14	17.9	

<sup>1</sup> "Curriculum Taken" reflects content-specific curriculum in this table.<sup>2</sup> "Core or More" results correspond to students taking four or more years of English or three or more years of math, social studies, or natural science, respectively.

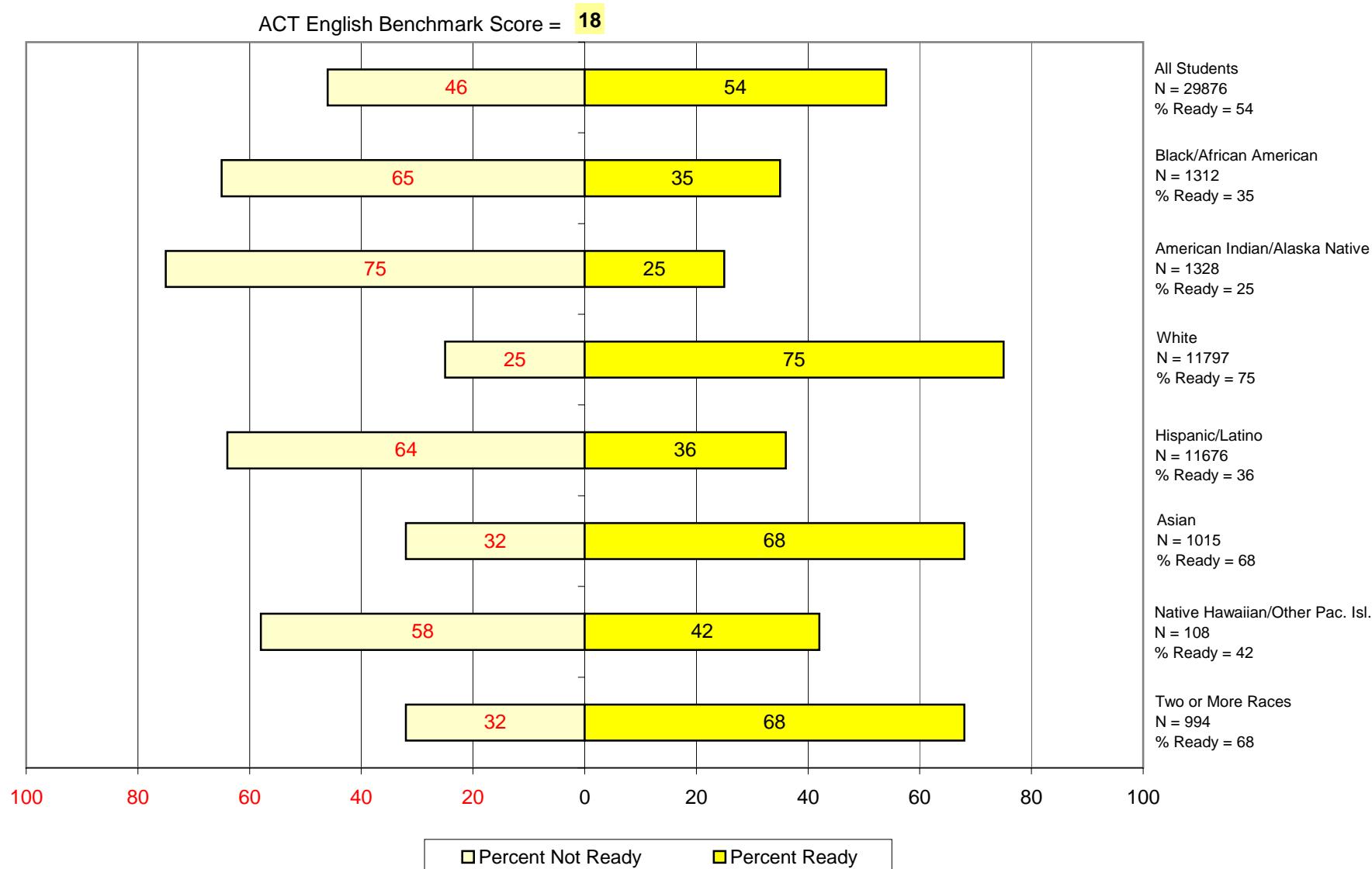
For instance, Reading "Core or More" results correspond to students taking three or more years of social studies, regardless of courses taken in other content areas.

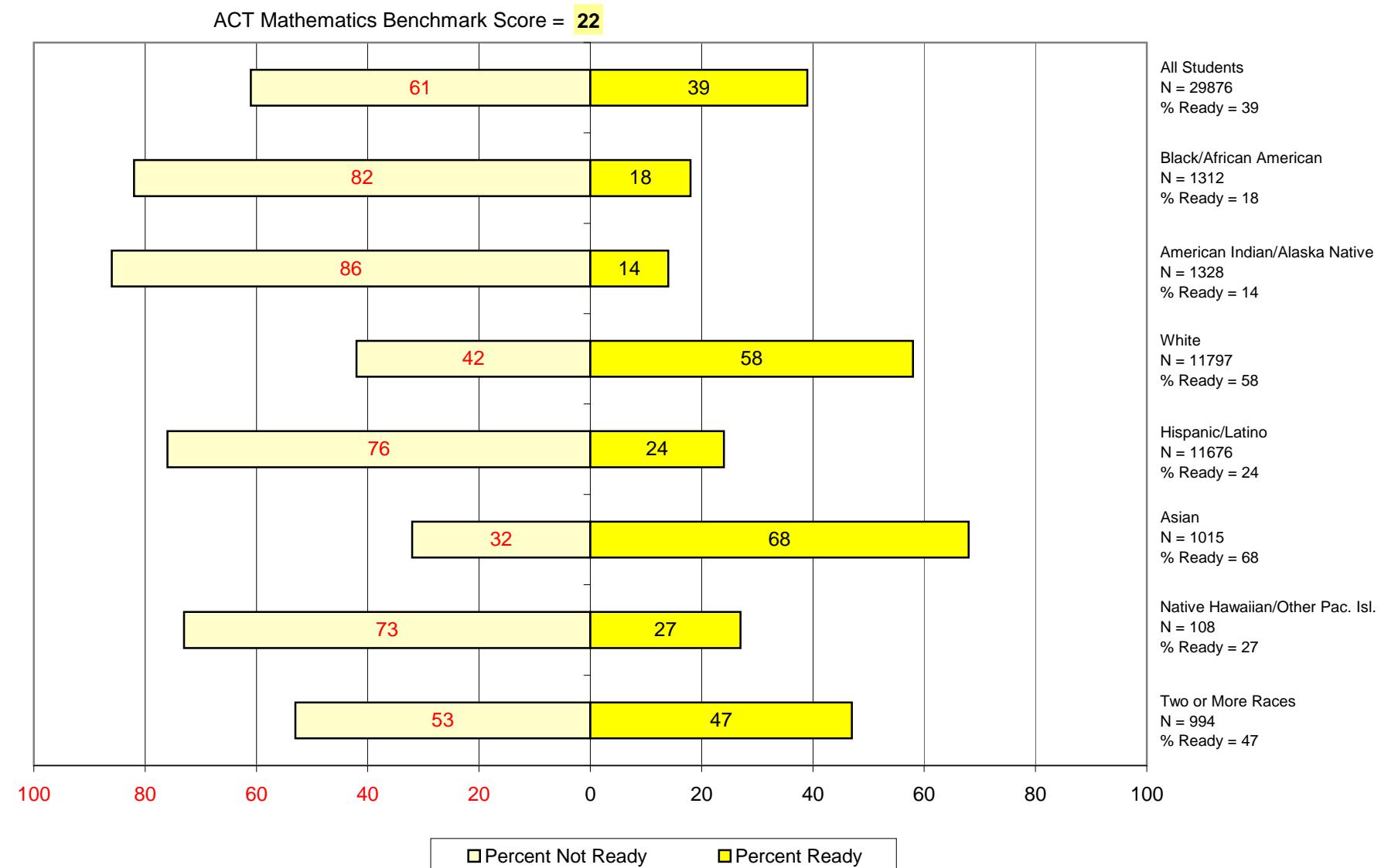
<sup>3</sup> Zero years or no coursework information reported in the specified content area.

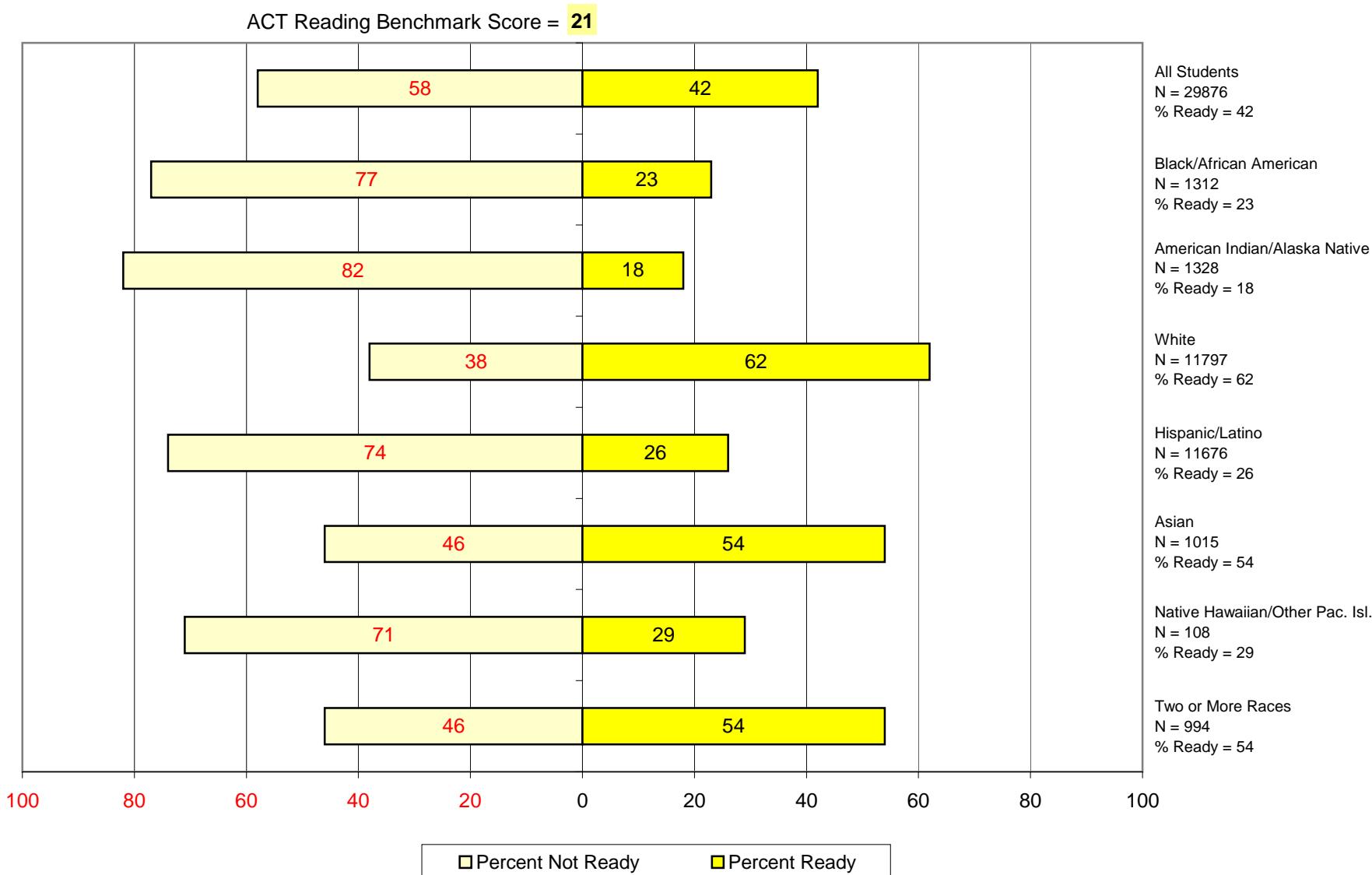
# Section III

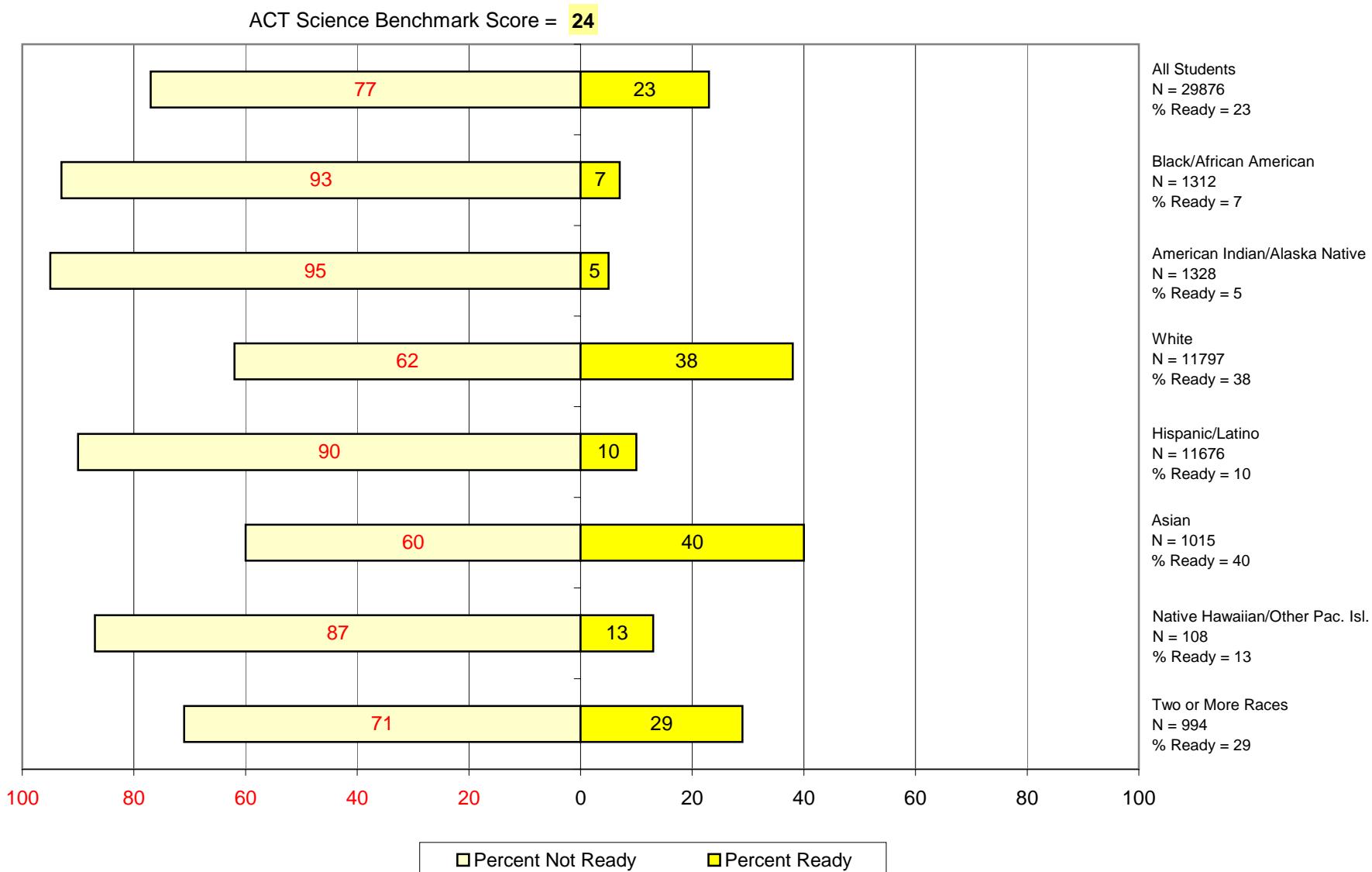
## College Readiness and the Impact of Course Rigor

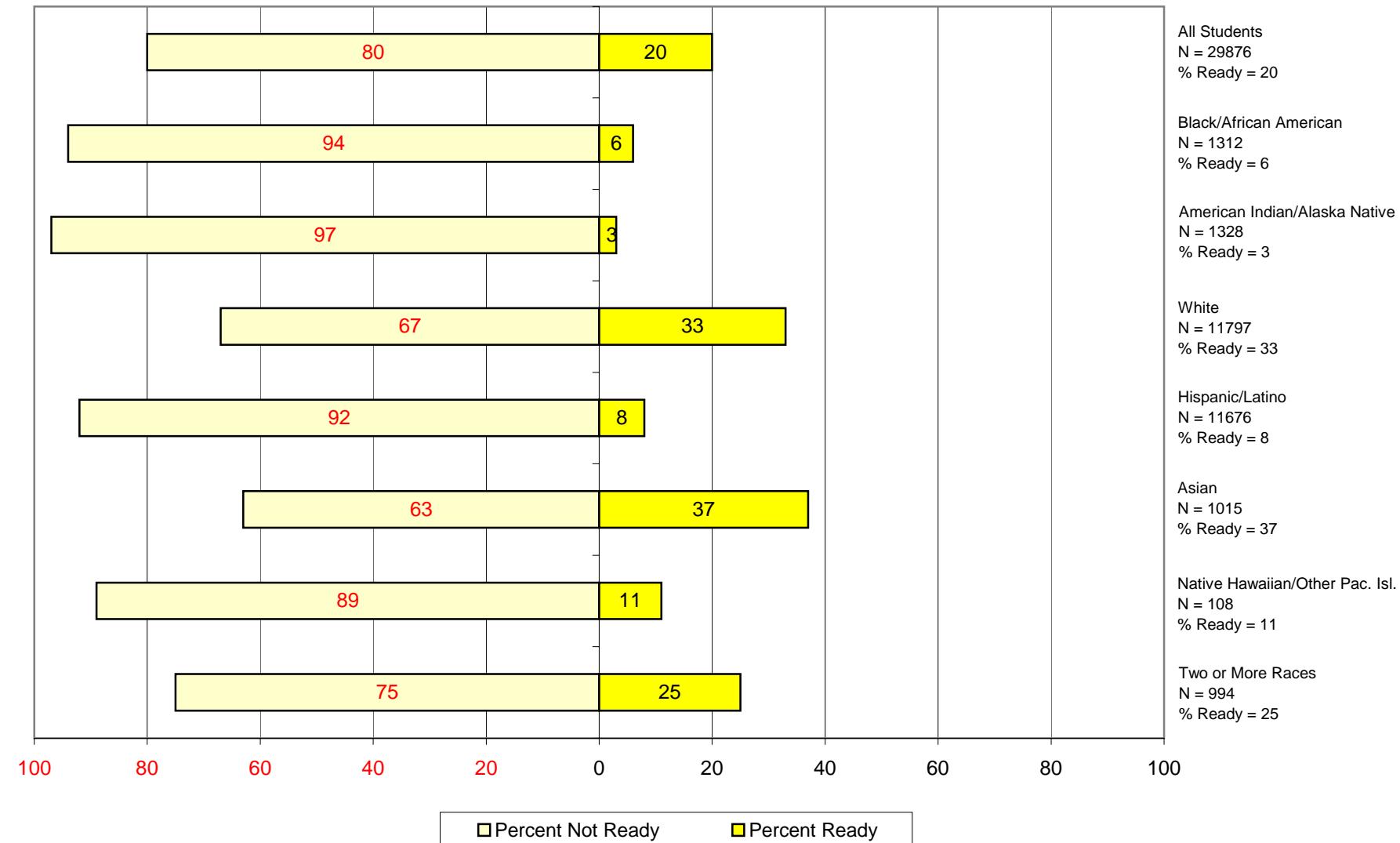
Tables within this section have been changed to reflect the updated United States Department of Education race/ethnicity reporting requirements. The race/ethnicity categories shown are the derived Federal reporting categories. Not all values convert from old race/ethnicity categories into new race/ethnicity categories. Therefore, trend data may not be present where direct conversions are not available.

**Figure 3.1. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity<sup>1</sup>: ENGLISH**<sup>1</sup>Refer to the section header on page 17 for a description of race/ethnicity changes.

**Figure 3.2. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity<sup>1</sup>: MATHEMATICS**<sup>1</sup>Refer to the section header on page 17 for a description of race/ethnicity changes.

**Figure 3.3. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity<sup>1</sup>: READING**<sup>1</sup>Refer to the section header on page 17 for a description of race/ethnicity changes.

**Figure 3.4. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity<sup>1</sup>: SCIENCE**<sup>1</sup>Refer to the section header on page 17 for a description of race/ethnicity changes.

**Figure 3.5. Percent of Students Meeting ACT College Readiness Benchmark Scores by Race/Ethnicity<sup>1</sup>: ALL FOUR**<sup>1</sup>Refer to the section header on page 17 for a description of race/ethnicity changes.

**Table 3.1. Average ACT Scores and Average ACT Score Changes by Common Course Patterns**

Course Pattern	All Students					Males					Females				
	N	Percent	ACT English	Course Value Added <sup>1</sup>	N	Percent	ACT English	Course Value Added <sup>1</sup>	N	Percent	ACT English	Course Value Added <sup>1</sup>			
ENGLISH COURSE PATTERN															
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	3,618	12	20.3	6.2	1,541	11	19.9	6.0	2,067	13	20.5	6.0			
Eng 9, Eng 10, Eng 11, Eng 12	21,678	73	19.1	5.0	9,856	72	18.8	4.9	11,747	74	19.5	5.0			
Less than 4 years of English	2,498	8	14.1	-	1,294	9	13.9	-	1,169	7	14.5	-			
Zero years / no English courses reported	2,082	7	14.7	-	1,025	7	14.4	-	957	6	15.3	-			
MATHEMATICS COURSE PATTERN	N	Percent	ACT Math	Course Value Added <sup>1</sup>	N	Percent	ACT Math	Course Value Added <sup>1</sup>	N	Percent	ACT Math	Course Value Added <sup>1</sup>			
Alg 1, Alg 2, Geom, Trig, & Calc	1,871	6	24.3	8.1	897	7	25.2	8.9	968	6	23.5	7.4			
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,267	8	22.1	5.9	826	6	22.7	6.4	1,436	9	21.7	5.6			
Alg 1, Alg 2, Geom, & Trig	2,324	8	20.1	3.9	1,004	7	20.6	4.3	1,313	8	19.7	3.6			
Alg 1, Alg 2, Geom, & Other Adv Math	5,777	19	19.7	3.5	2,371	17	20.3	4.0	3,385	21	19.3	3.2			
Other comb of 4 or more years of Math	7,397	25	23.4	7.2	3,636	27	24.2	7.9	3,743	23	22.7	6.6			
Alg 1, Alg 2, & Geom	4,888	16	17.0	0.8	2,315	17	17.4	1.1	2,532	16	16.7	0.6			
Other comb of 3 or 3.5 years of Math	1,352	5	19.8	3.6	649	5	20.3	4.0	698	4	19.3	3.2			
Less than 3 years of Math	1,766	6	16.2	-	914	7	16.3	-	838	5	16.1	-			
Zero years / no Math courses reported	2,234	7	17.6	-	1,104	8	17.8	-	1,027	6	17.4	-			
SOCIAL SCIENCE COURSE PATTERN	N	Percent	ACT Reading	Course Value Added <sup>1</sup>	N	Percent	ACT Reading	Course Value Added <sup>1</sup>	N	Percent	ACT Reading	Course Value Added <sup>1</sup>			
US Hist, World Hist, Am Gov, & Other Hist	437	1	20.6	4.1	219	2	19.8	3.3	217	1	21.3	4.7			
Other comb of 4 or more years Social Science	11,474	38	21.6	5.1	4,868	35	21.6	5.1	6,589	41	21.6	5.0			
US Hist, World Hist, & Am Gov	1,359	5	18.1	1.6	703	5	17.8	1.3	641	4	18.3	1.7			
Other comb of 3 or 3.5 years of Social Science	10,811	36	19.7	3.2	4,880	36	19.7	3.2	5,886	37	19.8	3.2			
Less than 3 years of Social Science	3,508	12	16.5	-	1,917	14	16.5	-	1,552	10	16.6	-			
Zero years / no Social Science courses reported	2,287	8	16.3	-	1,129	8	15.9	-	1,055	7	16.9	-			
NATURAL SCIENCE COURSE PATTERN	N	Percent	ACT Science	Course Value Added <sup>1</sup>	N	Percent	ACT Science	Course Value Added <sup>1</sup>	N	Percent	ACT Science	Course Value Added <sup>1</sup>			
Gen Sci <sup>2</sup> , Bio, Chem, & Phys	7,418	25	21.0	3.6	3,707	27	21.8	4.6	3,693	23	20.3	2.7			
Bio, Chem, Phys	3,524	12	23.6	6.2	1,718	13	24.3	7.1	1,797	11	22.9	5.3			
Gen Sci <sup>2</sup> , Bio, Chem	9,119	31	18.9	1.5	3,720	27	19.0	1.8	5,357	34	18.9	1.3			
Other comb of 3 years of Natural Science	949	3	19.1	1.7	519	4	19.7	2.5	426	3	18.4	0.8			
Less than 3 years of Natural Science	6,508	22	17.4	-	2,891	21	17.2	-	3,575	22	17.6	-			
Zero years / no Natural Science courses reported	2,358	8	16.7	-	1,161	8	16.7	-	1,092	7	16.8	-			

<sup>1</sup>Course value added is defined as the average ACT score change compared to course sequences in which students took

less than four years of English or less than three years of Mathematics, Social Science or Natural Science.

<sup>2</sup>Includes General, Physical and Earth Sciences.

**Table 3.2. College Readiness Percents by Common Course Patterns**

Course Pattern	N	State			N	National		
		Percent Taking Pattern	Avg ACT English	Percent Meeting Benchmark		Percent Taking Pattern	Avg ACT English	Percent Meeting Benchmark
ENGLISH COURSE PATTERN								
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	3,618	12	20.3	66	380,162	23	21.7	73
Eng 9, Eng 10, Eng 11, Eng 12	21,678	73	19.1	57	1,178,400	71	20.5	67
Less than 4 years of English	2,498	8	14.1	26	64,748	4	16.5	41
Zero years / no English courses reported	2,082	7	14.7	30	42,707	3	16.5	40
MATHEMATICS COURSE PATTERN	N	Percent Taking Pattern	Avg ACT Math	Percent Meeting Benchmark	N	Percent Taking Pattern	Avg ACT Math	Percent Meeting Benchmark
Alg 1, Alg 2, Geom, Trig, & Calc	1,871	6	24.3	70	108,668	7	24.0	69
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,267	8	22.1	59	151,050	9	22.0	58
Alg 1, Alg 2, Geom, & Trig	2,324	8	20.1	38	115,739	7	19.6	34
Alg 1, Alg 2, Geom, & Other Adv Math	5,777	19	19.7	34	279,658	17	19.9	36
Other comb of 4 or more years of Math	7,397	25	23.4	65	585,086	35	23.6	66
Alg 1, Alg 2, & Geom	4,888	16	17.0	10	228,058	14	17.3	12
Other comb of 3 or 3.5 years of Math	1,352	5	19.8	34	82,509	5	19.9	35
Less than 3 years of Math	1,766	6	16.2	7	69,741	4	16.6	8
Zero years / no Math courses reported	2,234	7	17.6	17	45,508	3	18.2	22
SOCIAL SCIENCE COURSE PATTERN	N	Percent Taking Pattern	Avg ACT Reading	Percent Meeting Benchmark	N	Percent Taking Pattern	Avg ACT Reading	Percent Meeting Benchmark
US Hist, World Hist, Am Gov, & Other Hist	437	1	20.6	48	47,179	3	22.3	59
Other comb of 4 or more years Social Science	11,474	38	21.6	55	887,744	53	21.9	56
US Hist, World Hist, & Am Gov	1,359	5	18.1	29	84,563	5	20.2	44
Other comb of 3 or 3.5 years of Social Science	10,811	36	19.7	41	452,172	27	21.2	51
Less than 3 years of Social Science	3,508	12	16.5	21	149,266	9	19.7	40
Zero years / no Social Science courses reported	2,287	8	16.3	21	45,093	3	17.8	29
NATURAL SCIENCE COURSE PATTERN	N	Percent Taking Pattern	Avg ACT Science	Percent Meeting Benchmark	N	Percent Taking Pattern	Avg ACT Science	Percent Meeting Benchmark
Gen Sci <sup>1</sup> , Bio, Chem, & Phys	7,418	25	21.0	34	740,499	44	21.9	39
Bio, Chem, Phys	3,524	12	23.6	53	171,734	10	23.0	47
Gen Sci <sup>1</sup> , Bio, Chem	9,119	31	18.9	16	466,992	28	20.0	22
Other comb of 3 years of Natural Science	949	3	19.1	17	45,992	3	19.5	20
Less than 3 years of Natural Science	6,508	22	17.4	11	194,661	12	18.4	13
Zero years / no Natural Science courses reported	2,358	8	16.7	8	46,139	3	17.9	14

<sup>1</sup>Includes General, Physical and Earth Sciences.

# Section IV

# Career and Educational Aspirations

Tables within this section have been changed to reflect the updated United States Department of Education race/ethnicity reporting requirements. The race/ethnicity categories shown are the derived Federal reporting categories. Not all values convert from old race/ethnicity categories into new race/ethnicity categories.

Therefore, trend data may not be present where direct conversions are not available.

Tables within this section have been changed to reflect the updated Educational Major categories implemented by ACT in the fall of 2010.

**Table 4.1. Distribution of Planned Educational Majors for All Students by College Plans**

Planned Educational Major <sup>1</sup>	All Students			Plan on 2 Years or Less of College			Plan on 4 Years or More of College		
	N <sup>2</sup>	Percent <sup>3</sup>	Avg ACT Comp	N	Percent <sup>3</sup>	Avg ACT Comp	N	Percent <sup>3</sup>	Avg ACT Comp
Agriculture & Natural Resources Conservation	334	1	18.7	49	2	14.6	267	1	19.5
Architecture	388	1	20.1	21	1	16.6	343	2	20.4
Area, Ethnic, & Multidisciplinary Studies	57	0	20.4	6	0	15.5	43	0	21.2
Arts: Visual & Performing	2,260	8	18.8	254	12	15.2	1,814	8	19.5
Business	2,357	8	20.1	172	8	15.4	2,048	9	20.5
Communications	586	2	20.6	25	1	15.5	540	2	20.7
Community, Family, & Personal Services	1,110	4	16.5	227	11	15.2	780	3	17.1
Computer Science & Mathematics	581	2	21.7	53	3	15.8	493	2	22.3
Education	1,061	4	19.6	53	3	14.9	946	4	19.9
Engineering	2,139	7	22.8	93	5	15.2	1,921	8	23.2
Engineering Technology & Drafting	460	2	18.4	78	4	14.8	354	2	19.1
English & Foreign Languages	319	1	22.6	8	0	19.9	292	1	22.7
Health Administration & Assisting	960	3	17.0	107	5	14.8	791	3	17.5
Health Sciences & Technologies	5,572	19	20.0	238	12	15.3	5,049	22	20.3
Philosophy, Religion, & Theology	119	0	21.3	2	0	22.5	108	0	21.3
Repair, Production, & Construction	404	1	16.6	143	7	14.7	222	1	18.0
Sciences: Biological & Physical	1,486	5	23.2	17	1	16.8	1,386	6	23.3
Social Sciences & Law	2,378	8	20.5	76	4	15.1	2,165	10	20.8
Undecided	3,461	12	20.4	256	12	14.9	2,648	12	21.2
No Response	3,731	12	16.3	143	7	13.6	342	2	16.7

<sup>1</sup>Refer to the section header on page 25 for a description of educational major changes.<sup>2</sup>2-Year and 4-Year "N" counts do not reflect "Missing" and "Other" college plans, therefore they may not add up to the N count for All Students.<sup>3</sup>Percent of students tested within College Plan groups (All Students, 2-Year, 4-Year).

**Table 4.2. Average ACT Composite Scores for Racial/Ethnic<sup>1</sup> Groups by Post-Secondary Educational Aspirations**

Educational Degree Aspirations	All Racial/Ethnic Groups Combined		Black/African American		American Indian/ Alaska Native		White		Hispanic/Latino	
	N	Average	N	Average	N	Average	N	Average	N	Average
Voc-Tech	555	14.9	20	14.4	48	14.5	128	16.5	284	14.4
2-yr College Degree	1,501	15.1	48	14.1	118	14.7	350	16.7	847	14.4
Bachelors Degree	11,359	19.2	532	16.3	554	16.3	4,743	21.5	4,362	17.4
Graduate Study	4,325	22.3	145	19.3	127	18.1	2,234	24.3	1,285	19.4
Prof. Level Degree	6,933	21.8	333	18.9	328	17.8	2,651	24.4	2,566	19.3
Other	669	16.3	25	15.3	46	14.1	206	18.5	306	15.2
No Response	4,534	17.6	209	15.3	107	15.3	1,485	20.6	2,026	15.6

Educational Degree Aspirations	All Racial/Ethnic Groups Combined		Asian		Native Hawaiian/ Other Pacific Islander		Two or more races		Prefer not to respond/ No Response	
	N	Average	N	Average	N	Average	N	Average	N	Average
Voc-Tech	555	14.9	13	15.8	3	12.0	13	15.4	46	14.2
2-yr College Degree	1,501	15.1	21	15.1	6	13.0	28	18.5	83	15.2
Bachelors Degree	11,359	19.2	245	20.2	44	18.1	375	20.3	504	18.7
Graduate Study	4,325	22.3	170	23.8	15	22.9	162	23.0	187	22.4
Prof. Level Degree	6,933	21.8	415	24.8	16	18.4	276	22.5	348	22.4
Other	669	16.3	19	16.0	1	14.0	17	19.7	49	16.0
No Response	4,534	17.6	132	20.0	23	15.8	123	19.7	429	16.9

<sup>1</sup>Refer to the section header on page 25 for a description of race/ethnicity changes.

**Table 4.3. Students' Score Report Preferences at Time of Testing**

Name	State	Number of Students			Percent of Students in College Readiness Standards Ranges						
		Total	1st Choice	2nd-6th Choice	01-12	13-15	16-19	20-23	24-27	28-32	33-36
ARIZONA STATE UNIVERSITY	Arizona	11,975	5,529	6,446	7	18	28	25	15	7	1
UNIVERSITY OF ARIZONA	Arizona	10,437	3,741	6,696	6	17	27	25	17	7	1
NORTHERN ARIZONA UNIVERSITY	Arizona	8,126	1,859	6,267	5	16	29	27	16	6	0
GRAND CANYON UNIVERSITY	Arizona	2,720	648	2,072	9	23	33	24	10	2	0
GLENDALE COMMUNITY COLLEGE	Arizona	1,885	591	1,294	13	33	33	16	5	1	0
STATE-COLLEGE/NO REPORTS NOW	Iowa	1,734	1,734	0	14	27	26	17	10	5	1
PHOENIX COLLEGE	Arizona	1,372	338	1,034	24	37	27	9	2	0	0
PIMA COMMUNITY COLLEGE	Arizona	1,362	431	931	14	29	33	16	7	2	0
ARIZONA WESTERN COLLEGE	Arizona	1,259	741	518	23	36	29	10	2	0	0
MESA COMMUNITY COLLEGE	Arizona	882	165	717	8	26	33	21	10	2	0
CHANDLER-GILBERT COMMUNITY COLLEGE	Arizona	840	253	587	8	23	37	21	10	2	0
BRIGHAM YOUNG UNIVERSITY	Utah	799	454	345	0	4	10	26	31	26	3
SAN DIEGO STATE UNIVERSITY	California	738	125	613	3	15	32	30	15	4	0
UNIVERSITY OF SOUTHERN CALIFORNIA	California	702	119	583	4	17	29	25	16	8	1
GATEWAY COMMUNITY COLLEGE	Arizona	681	145	536	25	40	26	9	1	0	0
ART INSTITUTE OF PHOENIX THE	Arizona	667	184	483	15	31	31	17	4	1	0
NCAA ELIGIBILITY CENTER	Indiana	637	259	378	4	16	28	32	14	6	1
UNIVERSITY OF CALIFORNIA-LOS ANGELES	California	523	86	437	3	14	23	28	22	9	2
STANFORD UNIVERSITY	California	489	113	376	1	5	12	19	22	31	9
BRIGHAM YOUNG UNIVERSITY-IDAHO	Idaho	459	116	343	0	2	14	30	32	19	2
SOUTH MOUNTAIN COMMUNITY COLLEGE	Arizona	445	123	322	22	37	32	7	2	0	0
UNIVERSITY OF SAN DIEGO	California	370	55	315	3	12	26	29	18	11	1
SCOTTSDALE COMMUNITY COLLEGE	Arizona	346	45	301	11	28	35	21	4	1	0
ESTRELLA MOUNTAIN COMMUNITY COLLEGE	Arizona	344	80	264	14	34	31	17	3	1	0
SOUTHWEST U OF VISUAL ARTS-TUCSON	Arizona	306	70	236	19	33	32	11	4	1	0
EASTERN ARIZONA COLLEGE	Arizona	296	92	204	10	19	27	24	15	4	0
COCONINO COMMUNITY COLLEGE	Arizona	293	90	203	15	39	26	14	6	0	0
DEVRY UNIVERSITY-PHOENIX AZ	Arizona	287	48	239	12	33	30	18	4	2	0
YAVAPAI COLLEGE	Arizona	279	91	188	10	28	32	20	7	2	0
UNIVERSITY OF OREGON	Oregon	277	51	226	3	11	24	31	22	10	0
All Other Institutions		20,207	4,395	15,812	6	16	24	22	19	11	2
Total		71,737	22,771	48,966	8	19	27	23	15	7	1

# Section V

# Optional Writing Test Results

Tables within this section have been changed to reflect the updated United States Department of Education race/ethnicity reporting requirements. The race/ethnicity categories shown are the derived Federal reporting categories. Not all values convert from old race/ethnicity categories into new race/ethnicity categories. Therefore, trend data may not be present where direct conversions are not available.

**Table 5.1. Average ACT English and Writing Scores by Race/Ethnicity<sup>1</sup> and Gender for students who took ACT Writing**

	N		English		Average ACT Scores		English/Writing Combined	
	State	National	State	National	State	National	State	National
<b>All Students</b>	<b>8,022</b>	<b>931,148</b>	<b>22.3</b>	<b>21.5</b>	<b>7.2</b>	<b>7.1</b>	<b>21.4</b>	<b>20.7</b>
Black/African American	306	113,247	18.5	16.6	6.7	6.2	18.2	16.4
American Indian/Alaska Native	533	5,233	14.9	17.8	6.1	6.5	15.1	17.5
White	3,976	518,974	24.6	23.2	7.4	7.2	23.3	22.1
Hispanic/Latino	2,051	150,249	19.5	18.5	6.9	6.8	19.2	18.3
Asian	398	53,381	24.7	23.7	7.5	7.6	23.5	22.8
Native Hawaiian/Other Pac. Isl.	29	2,851	18.7	19.9	6.1	7.1	17.7	19.6
Two or more races	311	32,346	23.0	21.9	7.4	7.1	22.2	21.1
Prefer not/No Response	418	54,867	24.0	21.8	7.3	7.1	22.8	21.0
Males	3,330	413,617	22.3	21.2	7.0	6.8	21.3	20.3
Females	4,686	515,745	22.3	21.7	7.3	7.2	21.5	21.1
Missing	6	1,786	13.3	16.8	6.0	6.3	13.8	16.6

<sup>1</sup>Refer to the section header on page 29 for a description of race/ethnicity changes.



